

National Functional Guidelines Report #03

Lab MITKEM(Mitkem Laboratories) **SDG** F6AF8 **Case** 42764 **Contract** EPW11033 **Region** 6 **DDTID** 158695 **SOW** SOM01.2

Data Review Reports

Continuing Calibration Verification

Continuing Calibration Verification		VOA_Low_Med
VC14		The following volatile samples are associated with a CCV with relative response factors (RRF50) outside criteria. Detected compounds are qualified J. Nondetected compounds are qualified R.
F6AF8, F6AF9, F6AG0, F6AG1, F6AH7, F6AH8, F6AH9, F6AJ4, F6AJ5, F6AJ8, F6AJ9, F6AK0, F6AK1, F6AK8, F6AK9, F6AL0, VBLKH5, VBLKJ5, VHBLKJ5		
1,4-Dioxane VSTD050H5, VSTD050I5, VSTD050J5, VSTD050K5		
F6AF8, F6AF9, F6AG0, F6AG1, F6AH7, F6AH8, F6AH9, F6AJ4, F6AJ5, F6AJ8, F6AJ9, F6AK0, F6AK1, F6AK8, F6AK9, F6AL0, VBLKH5, VBLKJ5, VHBLKJ5		



National Functional Guidelines Report #03

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Data Review Reports

Continuing Calibration Verification

Continuing Calibration Verification		BNA
BC10	The following semivolatile samples are associated with an opening or closing CCV percent difference (%D) outside criteria. Detected compounds are qualified J. Nondetected compounds are qualified UJ.	
	F6AF8, F6AF9, F6AG0, F6AG1, F6AH7, F6AH8, F6AH9, F6AJ4, F6AJ5, F6AJ8, F6AJ9, F6AK0, F6AK1, F6AK8, F6AK9, F6AL0, SBLK4E	
	Bis(2-chloroethyl)ether SSTD020D4	
	F6AF8, F6AF9, F6AG0, F6AG1, F6AH7, F6AH8, F6AH9, F6AJ4, F6AJ5, F6AJ8, F6AJ9, F6AK0, F6AK1, F6AK8, F6AK9, F6AL0, SBLK4E	
Continuing Calibration Verification		BNA
BC21	The following semivolatile samples are associated with a continuing calibration in which a surrogate/DMC exceeded percent difference (%D) criteria. Detected and nondetected compounds are not qualified.	
	F6AF8, F6AF9, F6AG0, F6AG1, F6AH7, F6AH8, F6AH9, F6AJ4, F6AJ5, F6AJ8, F6AJ9, F6AK0, F6AK1, F6AK8, F6AK9, F6AL0, SBLK4E	
	2,4-Dichlorophenol-d3 SSTD020D4	
	F6AF8, F6AF9, F6AG0, F6AG1, F6AH7, F6AH8, F6AH9, F6AJ4, F6AJ5, F6AJ8, F6AJ9, F6AK0, F6AK1, F6AK8, F6AK9, F6AL0, SBLK4E	

National Functional Guidelines Report #03

Lab MITKEM(Mitkem Laboratories) SDG F6AF8 Case 42764 Contract EPW11033 Region 6 DDTID 158695 SOW SOM01.2

Data Review Reports

DMC/Surrogate

DMC/Surrogate	VOA_Low_Med
VDSS3	The following volatile samples have DMC/SMC recoveries above the upper limit of the criteria window. Detected compounds are qualified J. Nondetected compounds are not qualified.
	F6AF8, F6AF9, F6AH7, F6AH8
	Benzene-d6 F6AH7
	Benzene
	1,2-Dichloropropane-d6 F6AF8, F6AF9, F6AH7, F6AH8
	1,2-Dichloropropane, Bromodichloromethane, Cyclohexane, Methylcyclohexane
DMC/Surrogate	VOA_Low_Med
VDSS4	The following volatile samples have one or more DMC/SMC recovery values is less than the primary lower limit but greater than or equal to the expanded lower limit of the criteria window. Detected compounds are qualified J. Nondetected compounds are qualified UJ.
	F6AF8, F6AF9, F6AH7, F6AH8
	2-Butanone-d5 F6AF8, F6AF9
	2-Butanone, Acetone
	trans-1,3-Dichloropropene-d4 F6AF8, F6AF9, F6AH7, F6AH8
	1,1,2-Trichloroethane, cis-1,3-Dichloropropene, trans-1,3-Dichloropropene

National Functional Guidelines Report #03

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Data Review Reports

Detection Limit

Detection Limit		VOA_Low_Med
VDL1		The following volatile samples have analyte concentrations below the quantitation limit (CRQL). Detected compounds are qualified J. Nondetected compounds are not qualified.
F6AF9, F6AG0, F6AG1, F6AH9, F6AJ9, F6AK0		
2-Butanone F6AG0, F6AG1, F6AH9, F6AJ9, F6AK0		
Methyl acetate F6AF9		

National Functional Guidelines Report #03

Lab MITKEM(Mitkem Laboratories) SDG F6AF8 Case 42764 Contract EPW11033 Region 6 DDTID 158695 SOW SOM01.2

Data Review Reports

Detection Limit

Detection Limit	BNA
BDL1	The following semivolatile samples have analyte concentrations below the quantitaion limit (CRQL). Detected compounds are qualified J. Nondetected compounds are not qualified.
	F6AF8, F6AF9, F6AG0, F6AG1, F6AH7, F6AH8, F6AH9, F6AJ4, F6AJ5, F6AJ9, F6AK1, F6AK8, F6AK9
	Benzo(k)fluoranthene F6AJ5, F6AK9
	Fluoranthene F6AH8, F6AK8
	Benzo(g,h,i)perylene F6AJ5, F6AK9
	Pyrene F6AH8, F6AJ5, F6AK8
	Indeno(1,2,3-cd)pyrene F6AJ5, F6AK9
	Benzo(a)anthracene F6AJ5, F6AK9
	Di-n-butylphthalate F6AF8, F6AF9, F6AG0, F6AG1, F6AH7, F6AH8, F6AH9, F6AJ4, F6AJ9, F6AK1, F6AK8, F6AK9
	Chrysene F6AH8, F6AJ5, F6AK9
	Phenanthrene F6AJ5
	Benzo(b)fluoranthene F6AJ5, F6AK9
	Benzo(a)pyrene F6AJ5, F6AK9
	Dimethylphthalate F6AK1
	Bis(2-ethylhexyl)phthalate F6AF8, F6AG0, F6AG1, F6AH7, F6AH8, F6AH9, F6AJ4, F6AK1, F6AK8, F6AK9

National Functional Guidelines Report #03

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Data Review Reports

Detection Limit

Detection Limit	Pest
PDL1	The following pesticide samples have analyte concentrations below the quantitation limit (CRQL). Detected compounds are qualified J. Nondetected compounds are not qualified.
	F6AF8, F6AG1, F6AH9, F6AJ4, F6AJ8, F6AJ9, F6AK0, F6AK1, F6AK8, PLCS5W
	alpha-Chlordane F6AF8, F6AJ9
	4,4'-DDE PLCS5W
	Endosulfan sulfate PLCS5W
	gamma-Chlordane F6AF8, F6AJ9, PLCS5W
	gamma-BHC (Lindane) PLCS5W
	Dieldrin PLCS5W
	delta-BHC F6AG1, F6AJ4
	Endrin PLCS5W
	Heptachlor epoxide PLCS5W
	beta-BHC F6AF8, F6AG1, F6AH9, F6AJ4, F6AJ8, F6AJ9, F6AK0, F6AK1, F6AK8
Detection Limit	Pest
PDL3	The percent difference between analyte results for the following pesticide samples is greater than 25%. Detected and nondetected compounds are not qualified.
	F6AF8, F6AG1, F6AH9MS, F6AJ4, F6AJ8, F6AJ9, F6AK0, F6AK1, F6AK8
	alpha-Chlordane F6AF8, F6AJ9
	gamma-Chlordane F6AF8, F6AJ9
	gamma-BHC (Lindane) F6AH9MS
	Aldrin F6AH9MS
	delta-BHC F6AG1
	beta-BHC F6AF8, F6AG1, F6AJ4, F6AJ8, F6AK0, F6AK1, F6AK8

National Functional Guidelines Report #03**Lab** MITKEM(Mitkem Laboratories) **SDG** F6AF8 **Case** 42764 **Contract** EPW11033 **Region** 6 **DDTID** 158695 **SOW** SOM01.2***Data Review Reports***

Detection Limit

Aroclor	
ADL1	The following aroclor samples have analyte concentrations below the quantitation limit (CRQL). Detected compounds are qualified J. Nondetected compounds are not qualified.
	ALCS3J
	Aroclor-1260 ALCS3J

National Functional Guidelines Report #03

Lab MITKEM(Mitkem Laboratories) SDG F6AF8 Case 42764 Contract EPW11033 Region 6 DDTID 158695 SOW SOM01.2

Data Review Reports

Initial Calibration

Initial Calibration		VOA_Low_Med
VC15		The following volatile samples are associated with an initial calibration with relative response factors (RRFs) outside criteria. Detected compounds are qualified J. Nondetected compounds are qualified R. F6AF8, F6AF9, F6AG0, F6AG1, F6AH7, F6AH8, F6AH9, F6AJ4, F6AJ5, F6AJ8, F6AJ9, F6AK0, F6AK1, F6AK8, F6AK9, F6AL0, VBLKH5, VBLKJ5 1,4-Dioxane VSTD005D5, VSTD010D5, VSTD050D5, VSTD100D5, VSTD200D5 F6AF8, F6AF9, F6AG0, F6AG1, F6AH7, F6AH8, F6AH9, F6AJ4, F6AJ5, F6AJ8, F6AJ9, F6AK0, F6AK1, F6AK8, F6AK9, F6AL0, VBLKH5, VBLKJ5, VHBLKJ5
Initial Calibration		VOA_Low_Med
VC20		The following volatile samples are associated with an initial calibration in which a DMC did not meet relative response factor (RRF) criteria. Detected and nondetected compounds are not qualified. F6AF8, F6AF9, F6AG0, F6AG1, F6AH7, F6AH8, F6AH9, F6AJ4, F6AJ5, F6AJ8, F6AJ9, F6AK0, F6AK1, F6AK8, F6AK9, F6AL0, VBLKH5, VBLKJ5, VHBLKJ5 1,4-Dioxane-d8 VSTD005D5, VSTD010D5, VSTD050D5, VSTD100D5, VSTD200D5 F6AF8, F6AF9, F6AG0, F6AG1, F6AH7, F6AH8, F6AH9, F6AJ4, F6AJ5, F6AJ8, F6AJ9, F6AK0, F6AK1, F6AK8, F6AK9, F6AL0, VBLKH5, VBLKJ5, VHBLKJ5

National Functional Guidelines Report #03

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Data Review Reports

Matrix Spikes

Matrix Spikes	Pest
PMS1	The relative percent difference (RPD) between the following pesticide matrix spike and matrix spike duplicate recoveries is outside criteria. Detected compounds in parent sample are qualified J. Nondetected compounds in parent sample are not qualified.
	F6AH9MS, F6AH9MSD
	gamma-BHC (Lindane) F6AH9MS, F6AH9MSD
Matrix Spikes	Pest
PMS5	The following pesticide matrix/matrix spike duplicate samples have percent recoveries that are greater than or equal to the lower expanded criteria limit but less than the lower primary criteria limit. Detected compounds in parent sample are qualified J. Nondetected compounds in parent sample are qualified UJ.
	F6AH9MS, F6AH9MSD
	gamma-BHC (Lindane) F6AH9MS, F6AH9MSD
	Endrin F6AH9MSD

National Functional Guidelines Report #03

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Data Review Reports

Matrix Spikes

Matrix Spikes		Aroclor
AMS1		The relative percent difference (RPD) between the following aroclor matrix spike and matrix spike duplicate recoveries is outside criteria. Detected compounds in parent sample are qualified J. Nondetected compounds in parent sample are not qualified.
	F6AH9MS, F6AH9MSD	
	Aroclor-1260	F6AH9MS, F6AH9MSD
	Aroclor-1016	F6AH9MS, F6AH9MSD

National Functional Guidelines Report #03**Lab** MITKEM(Mitkem Laboratories) **SDG** F6AF8 **Case** 42764 **Contract** EPW11033 **Region** 6 **DDTID** 158695 **SOW** SOM01.2***Data Review Reports***

Percent Moisture

Percent Moisture	VOA_Low_Med
VPM1	Percent moisture content of the following volatile soil samples exceeds primary criteria. Detected compounds are qualified J. Nondetected compounds are qualified UJ.
F6AK0	

National Functional Guidelines Report #03**Lab** MITKEM(Mitkem Laboratories) **SDG** F6AF8 **Case** 42764 **Contract** EPW11033 **Region** 6 **DDTID** 158695 **SOW** SOM01.2***Data Review Reports***

Percent Moisture

Percent Moisture	BNA
BPM1	Percent moisture content of the following semivolatile soil samples exceeds primary criteria. Detected compounds are qualified J. Nondetected compounds are qualified UJ.
F6AK0	

National Functional Guidelines Report #03**Lab** MITKEM(Mitkem Laboratories) **SDG** F6AF8 **Case** 42764 **Contract** EPW11033 **Region** 6 **DDTID** 158695 **SOW** SOM01.2***Data Review Reports***

Percent Moisture

Percent Moisture	Pest
PPM1	Percent moisture content of the following pesticide soil samples exceeds primary criteria. Detected compounds are qualified J. Nondetected compounds are qualified UJ.
F6AK0	

National Functional Guidelines Report #03**Lab** MITKEM(Mitkem Laboratories) **SDG** F6AF8 **Case** 42764 **Contract** EPW11033 **Region** 6 **DDTID** 158695 **SOW** SOM01.2***Data Review Reports***

Percent Moisture

Percent Moisture	Aroclor
APM1	Percent moisture content of the following aroclor soil samples exceeds primary criteria. Detected compounds are qualified J. Nondetected compounds are qualified UJ.
F6AK0	

National Functional Guidelines Report #03

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Data Review Reports

TIC

TIC	VOA_Low_Med
VTIC1	A library search indicates a match at or above 85% for a TIC compound in the volatile sample. Detected compounds are qualified NJ. Nondetected compounds are not qualified.
	F6AH8
	Dimethyl sulfide F6AH8

National Functional Guidelines Report #03

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Data Review Reports

TIC

TIC	BNA
BTIC1	A library search indicates a match at or above 85% for a TIC compound in the semivolatile sample. Detected compounds are qualified NJ. Nondetected compounds are not qualified.
	F6AG1, F6AH8, F6AH9, F6AJ5, F6AK1
	9-Tricosene, (Z)- F6AK1
	Benzene-1,4-dicarboxylic acid, monohydra F6AG1
	1,3-Benzenedicarboxylic acid, dimethyl e F6AH8
	1,4-Benzenedicarboxylic acid, dimethyl e F6AH9
	11H-Benzo[b]fluorene F6AJ5